

Basic Plate and Sheet Metal

Course Description

Designed to instruct welders in arc welding safety and the Shielded Metal Arc Welding process (SMAW - Stick). The course lasts 6 weeks, involving approximately 180 hours of booth instruction, lecture and practice.

Course Content

Week 1

Introduction to welding safety and electrodes: types, selection, classification and qualification.

30 Clock Hours: Lab - 25, Class - 5

Week 2

Discussion of power source: types, selection and duty cycle as well as cable sizing, arc blow and welding symbols.

Week 2 Welding Test

30 Clock Hours: Lab - 26, Class - 4

Week 3

Discussion of electrodes: advantages, limitations, and vertical-up vs. vertical down in addition to certification and qualification test training.

30 Clock Hours: Lab - 27, Class - 3

Week 4

Discussion of non-destructive testing, fillet gauge use and weld size determination as well as a review of low hydrogen electrode procedures and techniques.

30 Clock Hours: Lab - 28, Class - 2

Week 5

Practicing all of the manipulative arc welding techniques learned during the prior four weeks.

Week 5 Welding Test. Final Exam and Evaluation.

30 Clock Hours: Lab - 29, Class - 1

Week 6

Introduction to oxyfuel safety and oxyfuel processes: cutting and welding. Welding done on bevel plates with E7018; stringers vs. weave.

30 Clock Hours: Lab - 29, Class - 1



Course Fee:
\$1,425.00

2010 Course Dates:

Jan 4 - Feb 12

Feb 15 - Mar 26

Mar 29 - May 7

May 10 - June 18

June 21 - July 30

Aug 2 - Sept 10

Sept 13 - Oct 22

Oct 25 - Dec 3